



TEST REPORT

Reference No...... : WTZ22F09183665W003
FCC ID : 2A8N8-HT2004-15D-W
Applicant..... : Dongguan Yuetai Electrical Appliances Co., Ltd
Address..... : Room 101, 1st Building, No. 5 Lane 1, Xiyu Road, Hengli Town,
Dongguan City,Guangdong province, China
Manufacturer : The same as above
Address..... : The same as above
Product Name..... : Electric Heater
Model No...... : HT2004-15D-W
Test specification..... : FCC CFR47 Part 1 Subpart I (Section 1.1307): 2020
Date of Receipt sample : 2022-08-19
Date of Test : 2022-09-14
Date of Issue..... : 2022-10-10
Test Report Form No. : WEW-MPE-01A
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

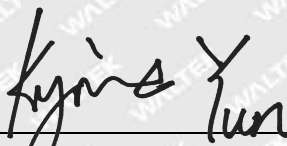
Prepared By:

Waltek Testing Group (Foshan) Co., Ltd.

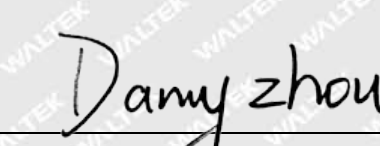
Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City,
Chencun, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Tested by:


Kyrie Yun

Approved by:


Danny Zhou



1 Revision History

Test Report No.	Date of Issue	Description	Status
WTZ22F09183665W003	2022-10-10	Original	Valid

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3 General Information

3.1 General Description of E.U.T

Product Name : Electric Heater
Model No. : HT2004-15D-W
Model Description : ---
Rated Voltage..... : AC 120V, 60Hz, 1500W
Battery Capacity : ---
Power Adapter : ---

3.2 Technical Characteristics of WiFi

Support Standards : 802.11b, 802.11g, 802.11n
Frequency Range : 2412-2462MHz for 802.11b/g/n(HT20)
RF Output Power : 14.34dBm (Conducted)
Modulation : 802.11b: DSSS(DBPSK/DQPSK/CCK)
802.11g/n: OFDM (BPSK/QPSK/16QAM/64QAM)
Data Rate : 1Mbps for 802.11b;54Mbps for 802.11g;MCS7 for 802.11n
Quantity of Channels : 11 for 802.11b/g/n(HT20)
Channel Separation..... : 5MHz
Type of Antenna : PCB Printed Antenna
Antenna Gain : 1.13dBi

3.3 Technical Characteristics of BLE

Bluetooth Version : V4.2(BLE mode)
Frequency Range : 2402-2480MHz
RF Output Power : 1.068dBm (Conducted)
Modulation : GFSK
Data Rate : 1Mbps
Quantity of Channels : 40
Channel Separation..... : 2MHz
Type of Antenna : PCB Printed Antenna
Antenna Gain : 1.13dBi

3.4 Disclaimer

The antenna gain information is provided by the customer. The laboratory is not responsible for the accuracy of the antenna gain information.



4 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

4.1 Standard Applicable

According to §1.1307(b)(1) and KDB 447498 D01 General RF Exposure Guidance v07, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

(a) Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	F/300	6
1500-100000	/	/	5	6

(b) Limits for General Population / Uncontrolled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-100000	/	/	1	30

Note: f = frequency in MHz; * = Plane-wave equivalents power density



4.2 MPE Calculation Method

$$S = (30 \cdot P \cdot G) / (377 \cdot R^2)$$

S = power density (in appropriate units, e.g., mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor is normally numeric gain.

R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm)

4.3 MPE Calculation Result

Prediction distance (mm)	Prediction frequency (MHz)	Antenna Gain (dBi)	Numeric gain	Maximum Tune-up output power (dBm)	Maximum peak output power (mW)	PD (mW/cm ²)	Limit (mW/cm ²)
>200	2462 (WiFi)	1.13	1.30	14.50	28.18	0.0072721	1.0
>200	2402 (BLE)	1.13	1.30	1.50	1.41	0.0003639	1.0

Result: Pass

=====End of Report=====

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